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HEPATICAEE OF THE LAKE GEORGE FLORA

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The Lake George Flora covers the region included in the counties of Washington, Warren and Saratoga, New York. Although I collected my first hepatic mosses about 1892, no special effort was made to collect them until 1906. It was Miss Sarah A. Brown of Unadilla Forks, N. Y., who first interested me in the Hepaticae.

Specimens collected by Dr. Chas. H. Peck and Dr. E. C. Howe are preserved in the N. Y. State Herbarium: those by Dr. Smith Ely Jelliffe about Huletts Landing, Lake George, in 1892, are preserved in his herbarium in New York City. Many specimens have been determined by Dr. A. W. Evans; by Miss Annie Lorenz; and by Dr. M. A. Howe. Many of the records, herein listed, were made during the years 1914-1917. These specimens have been determined by Dr. G. H. Conklin and Miss C. C. Haynes, and are preserved in the Hepatic Herbarium of the Sullivant Moss Society. Rather ample collections were made in West Fort Ann during 1918, but no attempt has been made to work these plants over

LIST OF SPECIES

- Ricciella fluitans* (L.) A. Br. Fort Ann (C. H. Peck); Cambridge waterworks swamp woods (Frank Dobbin); Five Combine woods, east of Hudson Falls, floating on pools.
- Ricciella Sullivantii* (Aust.) Evans. Moist clay upland soil, east of Vaughns. Determined by Dr. A. W. Evans.
- Ricciocarpus natans* (L.) Corda. Shushan (Dobbin); South Beaver creek, east of Vaughns, on quiet pools.
- Reboulia hemisphaerica* (L.) Raddi. Thin rocky soil. Vaughns; south of Tripoli; northwest Hartford. Determined by Dr. M. A. Howe; also by Dr. G. H. Conklin.
- Grimaldia fragrans* (Balb.) Corda. Dresden in muck soil (Peck).
- Asterella tenella* (L.) Beauv. Thin rocky soil, northern Washington county; Bacon Pond, southern W. Fort Ann, in low grassy ground. Determined by Dr. Evans; also by Miss C. C. Haynes.
- Conocephalum conicum* (L.) Dum. Damp ground in shaded places, specially near streams; abundant. Plants when bruised give off a pleasant aromatic fragrance.

- Preissia quadrata* (Scop.) Nees. Thin soil about limestone rocks at Vaughns; wet clay banks east of Tripoli. Determined by Dr. Evans; also by Dr. Conklin.
- Marchantia polymorpha* L. Mossy bogs, moist sandy banks and sometimes abundant on recently burned-over upland areas.
- Riccardia latifrons* Lindb. Shushan on rotten wood (Dobbin), two collections. Determined by Dr. Howe; also by Miss Annie Lorenz.
- Riccardia multifida* (L.) S. F. Gray. Wet place, New Michigan road, southern W. Fort Ann. Determined by Dr. Conklin.
- Riccardia pinguis* (L.) S. F. Gray. Wet places in Five Combine woods. Determined by Dr. Conklin.
- Metzgeria conjugata* Lindb. Shushan (Dobbin); rocky soil, Sugar Loaf Mt., southwestern W. Fort Ann.
- Pellia epiphylla* (L.) Corda. Marshes and wet soil; common. The plants of this genus should be collected during April or early May, before the capsules discharge their spores.
- Pellia Fabroniana* Raddi. Wet shaded places east of Tripoli; and the eastern base of Sugar Loaf Mt. Determined by Miss Haynes.
- Blasia pusilla* L. Roadside banks, Mt. Hope road north, northern W. Fort Ann; roadside on moranian hill south of East Lake George marsh. Determined by Dr. Conklin.
- Jungermannia lanceolata* L. Fort Edward (E. C. Howe); Devine's woods on rocks, at Vaughns. Determined by Dr. Conklin.
- Jamesoniella autumnalis* (DC.) Steph. Anaquassacook hills and on rotten logs in Rich's swamp, southwest of Shushan; Curtis hill east of Fort Ann; southern W. Fort Ann; northwest of Kingsbury Street. Determined by Dr. Conklin; also by Miss Haynes.
- Lophozia barbata* (Schreb.) Dumort. Mossy rocks specially in mountain woods. Huletts Landing (S. E. Jelliffe); Black Mt.; South Bay; Saddle Mt.; Peaked Mt.; Sugar Loaf Mt.; Shushan; Wilburs Basin. Specimens have been determined by Miss Lorenz; also by Dr. Conklin.
- Lophozia incisa* (Schrader) Dumort. Old log in swamp woods east of Thompson's gravelbed, southern W. Fort Ann. Determined by Miss Haynes.
- Lophozia inflata* (Huds.) M. A. Howe. Fort Edward (Howe).
- Plagiochila asplenioides* (L.) Dumort. Banks along streams and often on rocks in shallow water, bogs, and it sometimes occurs on old wood; common. Specimens have been determined by Miss S. A. Brown, Miss Lorenz and Dr. Conklin.
- Pedinophyllum interruptum* (Nees) Pears. Old log and rocks, Devine's woods, Vaughns, April 13, 1915. Determined by Dr. Conklin.
- Mylia anomala* (Hook.) S. F. Gray. New Michigan Pond, "Talman marsh," southern W. Fort Ann, Nov. 23, 1900. Determined by Dr. Evans. Recorded in N. Y. State Mus. Bull. 54: 946, 1902, as new to the state. Sphagnum marsh near the road, north of Glen Lake, Oct. 6, 1908. Determined by Miss Lorenz. "Fine plants" were collected on the marsh north of Glen Lake, Aug. 24 and Sept. 20, 1916. Determined by Dr. Conklin.

- Lophocolea heterophylla* (Schr.) Dumort. Rotten wood and on earth in shaded places; common. Specimens have been determined by Miss Lorenz, Miss Haynes and Dr. Conklin.
- Lophocolea minor* Nees. On rocky ledges, $\frac{1}{2}$ mile east of Tripoli, southern W. Fort Ann. Determined by Dr. Conklin.
- Chiloscyphus ascendens* Hook. & Wils. Grinnell's (Washburn's) woods by Glenwood brook, Vaughns, on stones, April 29, 1915. Determined by Miss Haynes. "Marginal cells measure $25 \times 30\mu$; medium cells $30 \times 37\mu$." Recorded in BRYOL. 20: 13. Jan. 1917.
- Chiloscyphus fragilis* (Roth) Schiffn. Dried up streambed, ravine south base of Sugar Loaf Mt., Nov. 13, 1915. Fine mats! "Marginal cells measure $23 \times 50-60\mu$; medium cells $31 \times 60\mu$." Wet place in woods, east base of Sugar Loaf Mt., Oct. 11, 1917. Both collections determined by Miss Haynes.
- Chiloscyphus polyanthos* (L.) Corda. Cold spring, South Bay; east of Tripoli; woods west of Kingsbury St. Determined in part by Dr. Conklin. The largest cells of this species according to Miss Haynes measure $28-33\mu$; of *C. pallescens* (Ehrh.) Dumort. $40-50\mu$; of *C. rivularis* $21-28\mu$.
- Chiloscyphus rivularis* (Schr.) Loeske. Swampy woods, Moreau, north of Fort Edward reservoir, Aug. 30, 1902. Determined by Dr. Howe.
- Harpanthus scutatus* (Web. & Mohr) Spruce. Shushan on rotten logs; old ash log, Devine's woods, Vaughns; east base of Sugar Loaf Mt. Determined by Dr. Howe; also by Miss Haynes.
- Geocalyx graveolens* (Schr.) Nees. Old logs, decaying humus, shaded banks and trunks of *Thuja occidentalis*. Shushan (Dobbin); southern W. Fort Ann. Several collections determined by Dr. Howe, Dr. Conklin and Miss Haynes. "The cells are very opaque and usually the stem humps up with the end curling up. The terminal inflorescence, always present in *Lophocolea*, is absent. Sporangium matures—in substratum—an oblong hairy fleshy pendulous perigynium; no perianth."
- Cephalozia bicuspidata* (L.) Dumort. Old logs, Shushan (Dobbin); and bog north of Clarks Pond, west of Shushan. Determined by Miss Lorenz.
- Cephalozia catenulata* (Hüb.) Spruce. Swampy woods east of Thompson's gravel-bed, southern W. Fort Ann, April 29, 1917. Determined by Miss Haynes.
- Cephalozia connivens* (Dicks.) Lindb. Marshes and wet woods Sphagnum marshes south of Glen Lake; and south end of East Lake George marsh; southern W. Fort Ann. Specimens determined by Dr. Evans, Miss Haynes and Dr. Conklin.
- Cephalozia curvifolia* (Dicks.) Dumort. Rotten logs, specially coniferous; apparently not an uncommon species. Horicon (Peck); Shushan (Dobbin); southern W. Fort Ann. Specimens have been determined by Dr. Conklin.
- Cephalozia lunulaefolia* Dumort. Old logs in Rich's swamp near Shushan, June 16, 1907. Determined by Miss Lorenz.
- Cephalozia media* Lindb. Southern W. Fort Ann in swampy woods. Determined by Dr. Conklin. also by Miss Haynes.

- Cephalozia pleniceps* (Aust.) Lindb. East Lake George marsh at Brayton on old wood, Oct. 18, 1915. Determined by Dr. Conklin. Sphagnum marsh about Mud Pond, south of Glen Lake, Sept. 11, 1917; and swampy woods east base of Sugar Loaf Mt., Oct. 11, 1917. Determined by Dr. Evans and Miss Haynes.
- Cephaloziella byssacea* (Roth) Warnst. Rocks by road south of South Bay village, Sept. 26, 1916. Determined by Dr. Conklin.
- Cephaloziella elachista* (Jack.) Schiffn. Sphagnum bog south of Glen Lake, Sept. 11, 1917. Determined by Miss Haynes.
- Odontoschisma denudatum* (Mart.) Dumort. Old log in swamp woods east of Thompson's gravel-bed, April 29, 1917. Determined by Miss Haynes.
- Calypogeia Neesiana* (Massal. & Carest.) K. Müll. On trunks of *Thuja occidentalis*, old wood, and old *Osmunda* and fern root-stocks, swamp woods east of Thompson's gravel-bed. Specimens have been determined by Dr. Conklin and by Miss Haynes.
- Calypogeia sphagnicola* (Arn. & Perss.) K. Müll. Sphagnum marsh near the road north of Glen Lake, Aug. 24 and Sept. 20, 1915. Determined by Dr. Conklin.
- Calypogeia Trichomanis* (L.) Corda. French Mt., on earth. Determined by Dr. Evans. Shushan, on rotten logs (Dobbin); Sugar Loaf Mt., wet cliffs.
- Bazzania trilobata* (L.) S. F. Gray. Moist woods and mossy swamps, particularly in upland regions; common.
- Lepidozia reptans* (L.) Dumort. Coniferous log, and old *Osmunda* and fern rootstocks, swamp woods east of Thompson's gravel-bed. Determined by Dr. Conklin; also by Miss Haynes.
- Blepharostoma trichophyllum* (L.) Dumort. Falls, West brook, W. Fort Ann; on earth in clearing south of Sugar Loaf Mt. Determined by Dr. Howe; also by Dr. Conklin.
- Ptilidium ciliare* (L.) Nees. Mountain and upland coniferous woods. Cold spring, South Bay, on rocks; Crosset Pond; Three Ponds; Sugar Loaf Mt.; Peaked Mt.; Curtis hill east of Fort Ann.
- Ptilidium pulcherrimum* (Web.) Hampe. Rocky places among mosses; but more often found on living or dead coniferous wood; abundant.
- Trichocolea tomentella* (Ehrh.) Dumort. Among mosses in wet woods and swamps. Huletts Landing (Jelliffe); W. Fort Ann; Five Combine woods, east of Hudson Falls; Rosecran's swamp, north of Glens Falls; Fort Edward reservoir; Cambridge waterworks swamp woods.
- Scapania nemorosa* (L.) Dumort. Moist rocks, in upland regions, often on limestone. Dresden (Peck); Black Mt.; South Bay; east of Fort Ann; Peaked Mt.; Sugar Loaf Mt.; Peaked Rock near Shushan. Specimens have been determined by Miss Brown; also by Dr. Conklin.
- Scapania paludicola* Loeske & K. Müll. Sphagnum marsh north of Podunk Pond, Oct. 17, 1899. Determined by Dr. Evans as *Scapania irrigua* (Nees) Dumort. Recorded in N. Y. State Mus. Bull. 54: 946, 1902, as new to the state. Dr. Evans in *Rhodora* 18: 78. April, 1916, reports this "Podunk Marsh" plant as *Scapania paludicola*. It has also been collected on the

- East Lake George marsh at Brayton, Oct. 18, 1915. Determined by Dr. Conklin. A similar or closely related plant, growing with *Leucobryum*, has been collected in Rich's swamp, near Shushan, May 20, 1906.
- Scapania undulata* (L.) Dumort. Black Mt.; ravine south base of Sugar Loaf Mt. Determined by Dr. Howe; also by Mr. G. B. Kaiser.
- Radula complanata* (L.) Dumort. Rocks and on trunks of trees; abundant.
- Porella platyphylla* (L.) Lindb. "Dresden Station, Adirondack Mountains, N. Y. (C. H. Peck 60)." A. W. Evans in *Rhodora* 18: 83. April, 1916.
- Porella platyphylloidea* (Schwein.) Lindb. Trunks of trees and rocks; common.
- Leucolejeunea clypeata* (Schwein.) Evans. Dresden on rocks, No. 61 (Peck). Presumably determined by Dr. Evans, who in *Rhodora* 10: 190. Oct., 1908, says, "Eastern shore of Lake George."
- Frullania Asagrayana* Mont. Huletts Landing (Jelliffe).
- Frullania Brittoniae* Evans. Trunks of *Ulmus americana*, North Beaver creek at lower falls, Vaughns, April 7, 1914. Determined by Dr. Conklin.
- Frullania eboracensis* Gottsche. On rocks and trees; abundant.
- Frullania riparia* Hampe. Limestone rocks, Bacon hill, 3 miles west of Fort Ann, April 22, 1917. Determined by Miss Haynes.
- Anthoceros crispulus* (Mont.) Douin. Sandy fields, $\frac{1}{2}$ mile west of Tripoli, Aug. 26, 1917. Determined by Miss Haynes.
- Anthoceros laevis* L. Shushan (Dobbin). Farley's (Vaughan's) woods, north of Vaughns, on a wet clay bank. Determined by Dr. Conklin.
- HUDSON FALLS, N. Y.

MOSS NOTES.—II. TWO POGONATUMS

A. J. GROUT

In preparing the manuscript for a new handbook on mosses I had occasion to study carefully our two Pogonatums with persistent protonema. The distinguishing characters are far more clearly cut than any published description would indicate.

P. brevicaule (Brid.) Beauv. is the common species in the North with which all bryologists are familiar. *P. brachyphyllum* (Mx.) Beauv., though common in the South and extending as far north as Long Island, New York, is much less well known and doubtless often overlooked.

In *P. brevicaule* the leaves are narrow, serrate, and pointed. The capsules are cylindric and erect, or drooping by the bending of the seta, two to six times as long as broad, usually straight. The calyptra is light gray, sometimes with a tinge of brown. In *P. brachyphyllum* the leaves are tongue-shaped and entire. The capsules are shorter and broader, not more than twice as long as broad, and plainly curved. The calyptra is a tawny red-brown.

Occasionally there are plants of *P. brevicaule* with capsules as short and broad as the larger forms of *brachyphyllum* but the other characters are practically always distinct.